

51-21

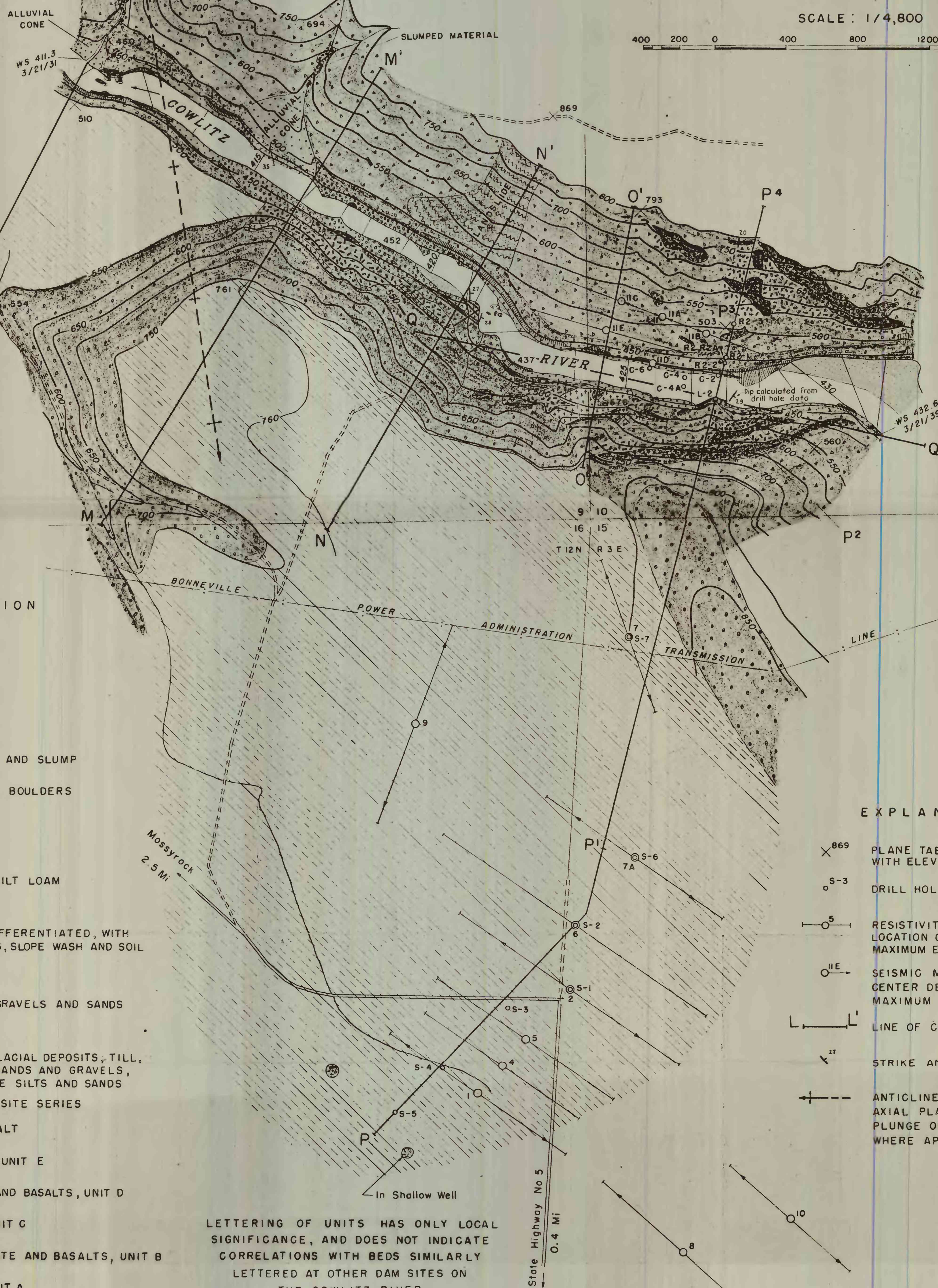
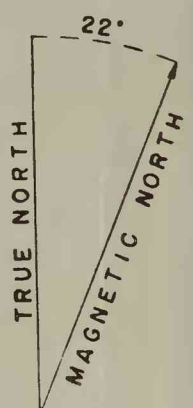
PRELIMINARY GEOLOGIC MAP OF SHUT-IN DAM SITE

SECTIONS 9, 10, 15 & 16, T. 12 N., R. 3 E.
LEWIS COUNTY, WASHINGTON

SCALE: 1/4,800

400 200 0 400 800 1200 1600 2000 FT.

APPROXIMATE MEAN
DECLINATION, 1936



EXPLANATION

- RECENT**
- ALLUVIUM
 - ACTIVE
 - INACTIVE
 - COLLUVIUM
 - LANDSLIDE AND SLUMP
 - LANDSLIDE BOULDERS
 - TALUS
- PLEISTOCENE**
- LOESS
 - CINEBAR SILT LOAM
 - YOUNGER DRIFT
 - DRIFT, UNDIFFERENTIATED, WITH SOME TALUS, SLOPE WASH AND SOIL
 - TILL
 - OUTWASH, GRAVELS AND SANDS
 - OLDER DRIFT
 - SHUT-IN GLACIAL DEPOSITS, TILL, OUTWASH SANDS AND GRAVELS, LACUSTRINE SILTS AND SANDS
- TERTIARY**
- MIOCENE**
- KEECHULUS (?) ANDESITE SERIES
 - DIKE, BASALT
 - ANDESITE, UNIT E
 - ANDESITE AND BASALTS, UNIT D
 - BASALT, UNIT C
 - AGGLOMERATE AND BASALTS, UNIT B
 - BASALT, UNIT A
 - UNDIFFERENTIATED

EXPLANATION

- 869 PLANE TABLE BENCH MARK, WITH ELEVATION
- S-3 DRILL HOLE
- S RESISTIVITY MEASUREMENT SHOWING LOCATION OF CENTER STAKE AND MAXIMUM ELECTRODE SPACING
- II E SEISMIC MEASUREMENT SHOWING CENTER DETECTOR, DIRECTION AND MAXIMUM DISTANCE OF SHOOTING
- L LINE OF CROSS SECTION
- 27 STRIKE AND DIP
- ANTICLINE SHOWING TRACE OF AXIAL PLANE AND BEARING AND PLUNGE OF AXIS. (DASHED WHERE APPROXIMATELY LOCATED)

LETTERING OF UNITS HAS ONLY LOCAL SIGNIFICANCE, AND DOES NOT INDICATE CORRELATIONS WITH BEDS SIMILARLY LETTERED AT OTHER DAM SITES ON THE COWLITZ RIVER